

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P949005

Luminaire Tested: **GALN-SB3D-850-U-T3R-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P949005  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB3D-850-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 80 CRI, 5000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

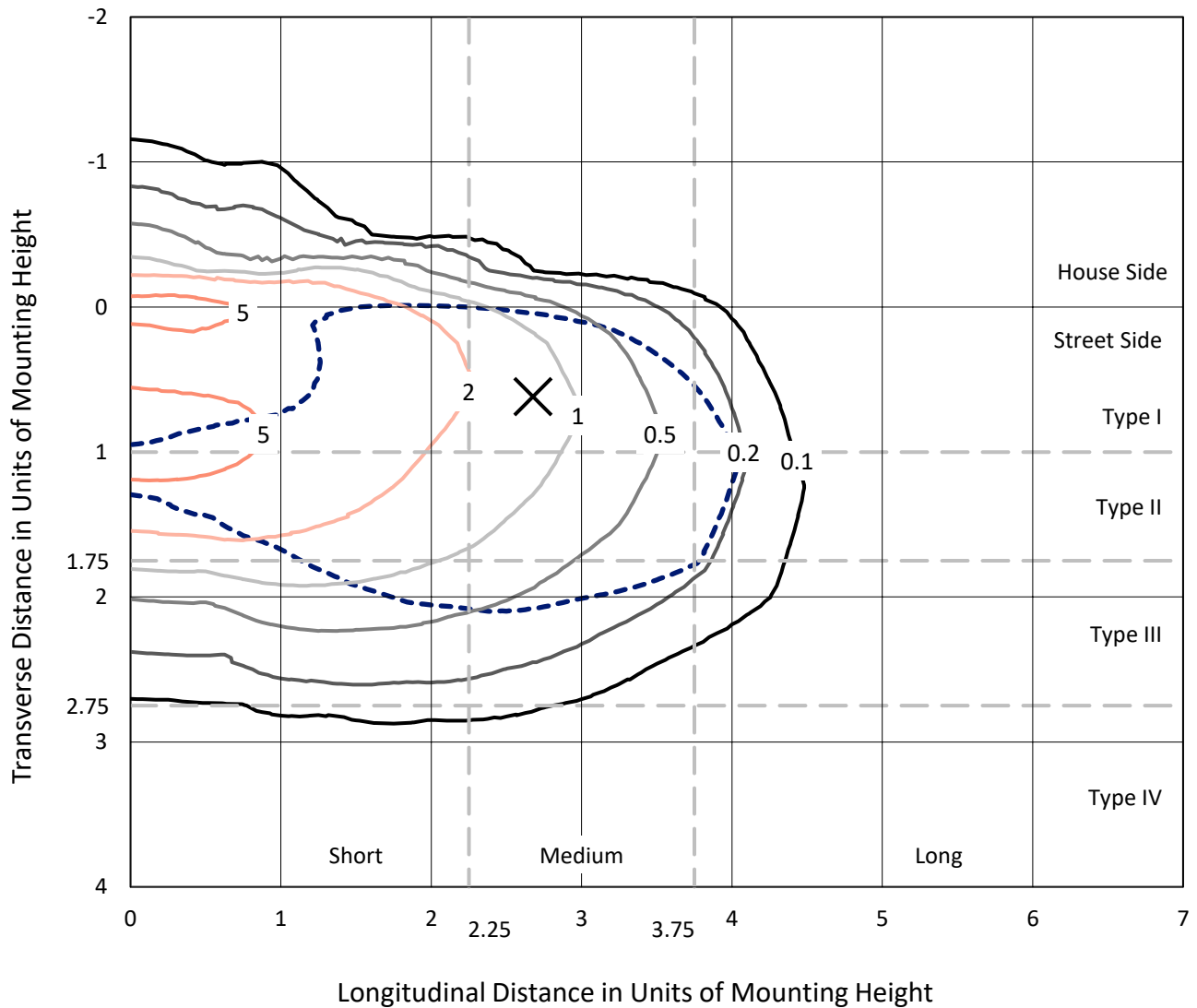
Lumens per Lamp: N/A  
Luminaire Lumens: 24314 lumens  
Efficiency: N/A  
Efficacy: 111.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G4  
  
Input Watts (W): 218.1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

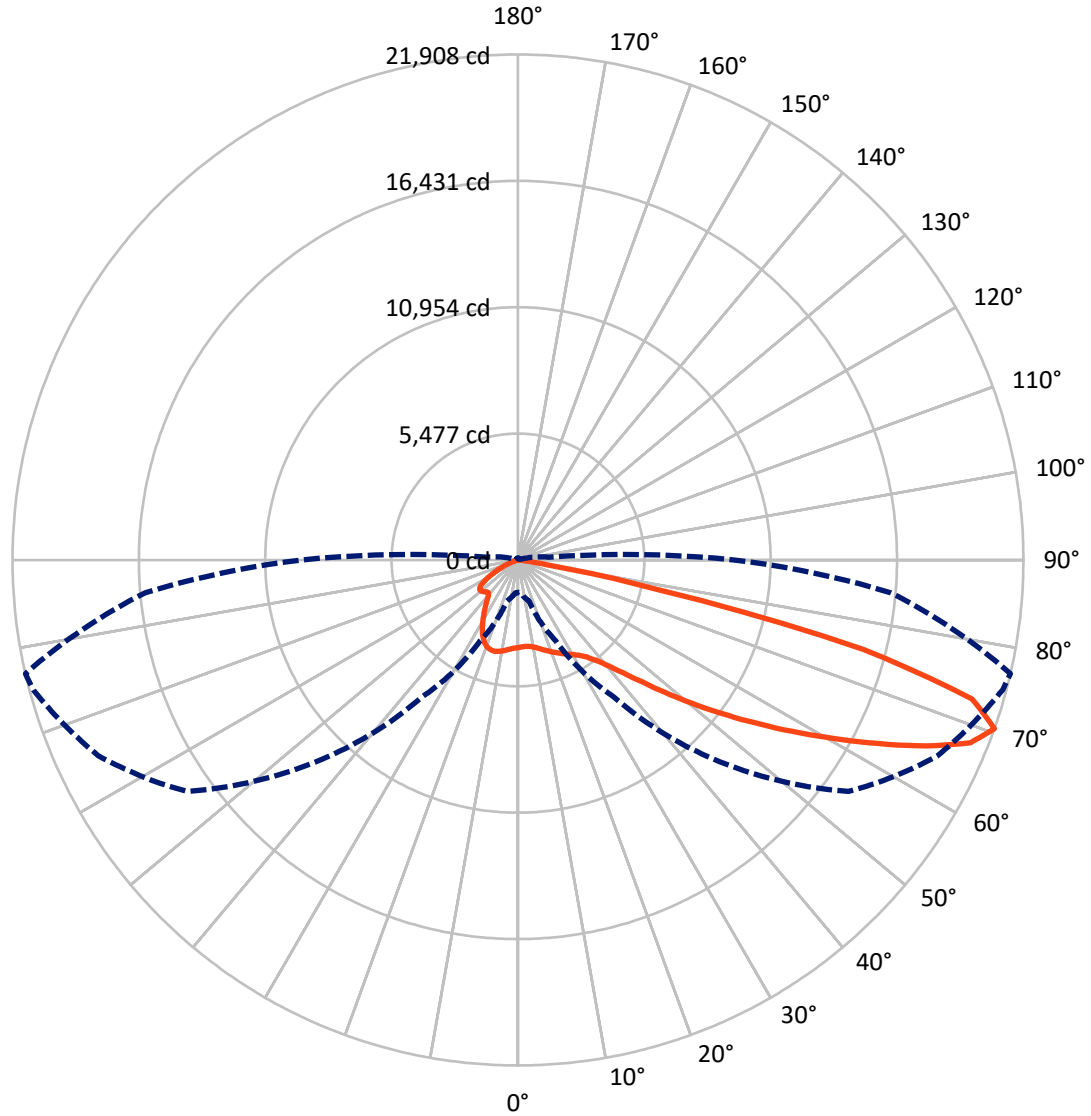
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2563.0	0.0	2563.0
	% Fixture	10.5	0.0	10.5
<b>Street Side</b>	Lumens	21751.0	0.0	21751.0
	% Fixture	89.5	0.0	89.5
<b>Total</b>	Lumens	24314.0	0.0	24314.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	326.9	1.3
10°-20°	775.9	3.2
20°-30°	1200.1	4.9
30°-40°	2177.7	9.0
40°-50°	4110.7	16.9
50°-60°	5939.6	24.4
60°-70°	6322.5	26.0
70°-80°	3350.5	13.8
80°-90°	110.0	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	24314.0	100.0
0°-180°	24314.0	100.0

**Coefficient of Utilization**



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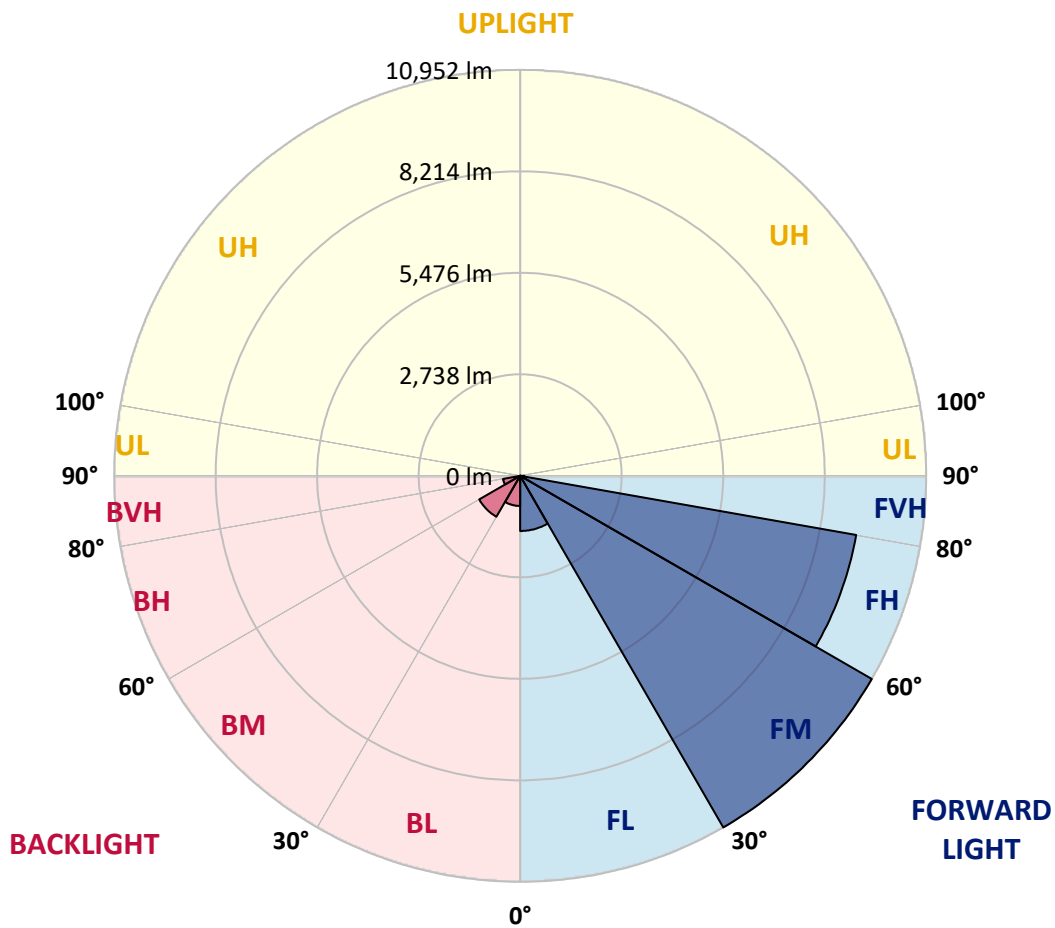
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1488.6	6.1			
FM (30°-60°)	10952.1	45.0			
FH (60°-80°)	9203.2	37.9			G4/12000
FVH (80°-90°)	107.1	0.4			G2/225
BL (0°-30°)	814.3	3.3	B2/1000		
BM (30°-60°)	1275.9	5.2	B2/2500		
BH (60°-80°)	469.9	1.9	B1/500		G1/500
BVH (80°-90°)	3.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G4**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°
0°	3792.5	3792.5	3792.5	3792.5	3792.5	3792.5	3792.5	3792.5	3792.5	3792.5
2.5°	3560.7	3592.9	3588.3	3609.8	3617.5	3648.2	3678.9	3720.4	3766.4	3764.9
5°	3359.5	3391.8	3399.5	3428.6	3465.5	3513.1	3576.0	3659.0	3744.9	3758.8
7.5°	3121.6	3155.3	3175.3	3233.6	3301.2	3399.5	3502.3	3623.6	3766.4	3786.4
10°	2883.6	2914.3	2940.4	3023.3	3130.8	3276.6	3444.0	3619.0	3811.0	3840.1
12.5°	2736.2	2765.3	2794.5	2866.7	3000.3	3178.4	3405.6	3640.5	3884.7	3926.1
15°	2684.0	2710.1	2733.1	2797.6	2921.9	3124.6	3397.9	3685.1	3978.3	4033.6
17.5°	2691.6	2705.5	2720.8	2769.9	2891.2	3100.1	3411.8	3761.8	4088.9	4138.0
20°	2736.2	2743.8	2745.4	2779.2	2886.6	3097.0	3439.4	3835.5	4193.3	4259.3
22.5°	2793.0	2796.0	2793.0	2816.0	2915.8	3120.0	3476.2	3924.6	4310.0	4371.4
25°	3058.6	3000.3	2926.6	2882.0	2964.9	3164.5	3531.5	4044.4	4437.4	4497.3
27.5°	3883.1	3715.8	3451.7	3155.3	3066.3	3229.0	3608.3	4165.7	4566.4	4620.1
30°	5222.0	5002.5	4554.1	3886.2	3391.8	3364.2	3708.1	4287.0	4703.1	4761.4
32.5°	6564.0	6510.3	5992.8	5068.5	4124.2	3665.1	3873.9	4451.3	4884.2	4930.3
35°	7921.4	7812.3	7388.6	6475.0	5252.8	4277.7	4150.3	4666.2	5122.2	5174.4
37.5°	8960.8	8894.8	8632.3	7879.9	6591.7	5223.6	4623.2	4999.4	5467.7	5526.1
40°	9879.0	9848.3	9759.3	9263.3	8088.7	6461.1	5358.7	5515.3	5946.8	6015.9
42.5°	10600.7	10672.9	10723.5	10585.3	9631.8	7873.8	6347.5	6240.0	6614.7	6685.3
45°	11339.2	11363.8	11568.0	11767.6	11164.2	9350.8	7462.3	7089.1	7445.4	7532.9
47.5°	11813.7	11912.0	12271.3	12622.9	12452.4	10815.7	8659.9	8091.8	8408.1	8572.4
50°	11849.0	12034.8	12529.2	13141.9	13390.6	12209.8	9962.0	9234.2	9570.4	9751.6
52.5°	11260.9	11549.6	12315.8	13212.5	13897.3	13390.6	11308.5	10376.5	10808.0	11044.4
55°	8633.8	9011.5	11512.8	12828.6	13917.3	14285.8	12619.8	11566.5	12186.8	12454.0
57.5°	7522.1	7712.5	9051.4	12162.2	13547.2	14646.6	13805.2	12699.7	13686.9	14018.6
60°	6258.5	6508.7	7591.2	11072.1	13045.1	14681.9	14852.3	14161.4	15313.0	15686.1
62.5°	4253.2	4525.0	5601.3	9198.8	12358.8	14665.0	15710.7	15666.1	17120.2	17520.9
65°	2634.8	2805.3	3514.6	7511.4	11399.1	14683.4	16608.9	17493.3	19027.2	19434.1
67.5°	2082.1	2160.4	2530.4	5767.1	9745.5	14268.9	17505.6	19211.5	20822.1	21144.6
70°	1398.8	1446.4	1841.0	3866.2	7250.4	12355.7	17488.7	20074.4	21746.5	21907.7
72.5°	737.0	773.9	1076.3	1790.3	4379.1	8782.7	14741.8	19042.6	20826.8	20584.2
75°	368.5	429.9	724.7	909.0	1870.2	4898.1	9154.3	15013.6	16392.4	15452.7
77.5°	279.5	337.8	598.8	598.8	651.0	1649.1	3877.0	8188.5	7552.8	6289.2
80°	178.1	230.3	523.6	453.0	271.8	419.2	1010.3	2294.0	1604.5	1220.7
82.5°	104.4	150.5	436.1	299.4	152.0	155.1	285.6	488.3	416.1	324.0
85°	41.5	98.3	299.4	118.2	59.9	38.4	86.0	104.4	86.0	64.5
87.5°	0.0	23.0	52.2	0.0	4.6	3.1	6.1	7.7	7.7	6.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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**CANDELA DISTRIBUTION (continued):**

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
3792.5	0°	3792.5	3792.5	3792.5	3792.5	3792.5	3792.5	3792.5	3792.5	3792.5	3792.5
3795.6	2.5°	3809.4	3812.5	3821.7	3823.3	3801.8	3774.1	3763.4	3758.8	3740.3	3738.8
3820.2	5°	3855.5	3869.3	3855.5	3815.6	3720.4	3586.8	3485.5	3402.5	3327.3	3304.3
3904.6	7.5°	3947.6	3961.4	3920.0	3763.4	3523.8	3258.2	3018.7	2849.8	2697.8	2641.0
4007.5	10°	4079.7	4098.1	3967.6	3651.3	3227.5	2800.6	2395.3	2109.7	1887.1	1796.5
4147.2	12.5°	4245.5	4253.2	3993.7	3480.8	2842.1	2232.5	1658.3	1352.7	1154.7	1081.0
4316.1	15°	4428.2	4417.5	3996.8	3249.0	2317.0	1578.4	1082.5	889.0	809.2	784.6
4485.0	17.5°	4620.1	4575.6	3935.3	2914.3	1741.2	1079.4	803.0	757.0	743.2	737.0
4652.4	20°	4809.0	4709.2	3823.3	2476.7	1249.9	806.1	729.3	715.5	707.8	704.8
4821.3	22.5°	4981.0	4810.5	3631.3	1968.4	907.4	712.4	689.4	677.1	663.3	657.2
4985.6	25°	5148.3	4868.9	3361.1	1494.0	726.3	666.4	648.0	624.9	606.5	598.8
5162.2	27.5°	5311.1	4905.7	3023.3	1105.5	648.0	623.4	589.6	557.4	543.5	540.5
5351.0	30°	5484.6	4918.0	2639.4	824.5	600.4	569.6	520.5	483.7	476.0	477.5
5605.9	32.5°	5696.5	4936.5	2252.5	675.6	560.4	505.2	446.8	408.4	402.3	408.4
5977.5	35°	5949.8	4973.3	1879.4	621.9	525.1	439.1	376.2	343.9	337.8	342.4
6453.5	37.5°	6293.8	5033.2	1530.8	611.1	495.9	383.9	316.3	290.2	290.2	291.7
7036.9	40°	6751.3	5192.9	1219.1	603.4	480.6	342.4	267.2	256.4	261.0	264.1
7780.1	42.5°	7308.7	5532.2	1008.8	594.2	463.7	324.0	242.6	238.0	245.7	248.7
8670.6	45°	7933.6	5962.1	935.1	578.9	448.3	336.3	231.9	225.7	234.9	236.5
9668.7	47.5°	8580.1	6382.8	925.9	562.0	433.0	354.7	228.8	215.0	225.7	227.2
10734.3	50°	9234.2	6657.7	935.1	535.9	408.4	354.7	230.3	204.2	213.4	218.0
11839.8	52.5°	9892.9	6783.6	928.9	479.1	365.4	333.2	230.3	195.0	204.2	207.3
13034.4	55°	10531.6	6759.0	835.3	394.6	310.2	294.8	224.2	187.3	193.5	195.0
14162.9	57.5°	11036.8	6416.6	661.8	307.1	251.8	245.7	204.2	178.1	182.7	181.2
15197.8	60°	11300.9	5664.3	472.9	236.5	198.1	193.5	179.6	165.8	168.9	161.2
16074.6	62.5°	11303.9	4669.3	316.3	187.3	158.2	153.5	153.5	148.9	145.9	130.5
16753.2	65°	11062.9	3565.3	210.4	148.9	127.4	119.8	129.0	127.4	116.7	95.2
16960.5	67.5°	10516.3	2336.9	159.7	116.7	98.3	93.7	102.9	107.5	99.8	79.8
16205.1	70°	9392.3	1360.4	132.0	90.6	73.7	69.1	82.9	92.1	82.9	64.5
13851.2	72.5°	7801.6	733.9	107.5	67.6	50.7	46.1	66.0	75.2	66.0	47.6
8887.1	75°	5062.4	393.1	82.9	44.5	26.1	29.2	49.1	55.3	46.1	30.7
2608.7	77.5°	1699.7	173.5	52.2	21.5	12.3	12.3	29.2	33.8	21.5	10.7
474.5	80°	379.3	72.2	21.5	9.2	4.6	4.6	6.1	6.1	3.1	0.0
145.9	82.5°	124.4	29.2	9.2	3.1	0.0	0.0	0.0	0.0	0.0	0.0
36.9	85°	47.6	10.7	3.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.3	87.5°	18.4	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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<u>180°</u>
3792.5
3741.9
3290.5
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701.7
655.6
595.8
537.4
477.5
406.9
340.9
290.2
264.1
248.7
238.0
228.8
219.6
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